

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple - Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291
Fax: (801) 359-3940

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. General Information

1. Report Time Period: From (mo./yr.) **1/2000** To (mo./yr.) **12/2000**
2. DOGM File Number (Mine No.): **M/045/004**
3. Mine Name: **Pine Canyon Reclamation Project**
4. Mineral(s) Mined (or permitted to mine): Copper and associated metals.
5. Type of mine: ___ Surface Mine or **X** Underground Mine
6. Legal Description, (Location of Lands Affected):

Section 17, S1/2, SW1/4;

Section 20, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, E1/2 SE1/4;

Section 21, SW1/4 SW1/4;

Section 28, W1/2 NW1/4;

Section 29, NE1/4 NE1/4;

Township 3 South, Range 3 West, Salt Lake Baseline and Meridian, Tooele County, Utah.

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7. Name of Operator or Company: Kennecott Utah Copper Corporation (KUCC)

8. Permanent Street Address: P. O. Box 6001
City, State, Zip: 8315 W. 3595 South
Magna, UT 84044
Phone: (801) 252-3257
Fax: (801) 252-3125

9. Company Representative (or designated operator):
Name: Paula Doughty
Title: Manager, Environmental Compliance
Business Address: P.O. Box 6001
City, State, Zip: Magna, UT 84044
Phone: (801) 252-3257
Fax: (801) 252-3125

☐ Please check if any of the above information has changed since previous year.

II. Mining and Reclamation

1. Was the mine active during the past year? Yes ☐ No ☒

2. If no - what was the last year of activity?

KUCC purchased the inactive property from Anaconda Minerals Co. in 1985.

3. If yes - how much ore or mineral was mined?

No ore was mined in 2000.

4. Briefly describe the type of work performed, volume of material moved, and any new or additional surface disturbances that occurred during the year.

Water is continuing to be pumped out of the shaft and is then piped through the Pine Canyon/Parvenu tunnel to the Bingham Canyon Mine where it is discharged to established water collection systems there. The water is being removed as part of the general pit dewatering program at the Bingham Canyon Mine. The only other work was general systems maintenance.

5. How much **additional acreage** was disturbed during the past year?

No additional acres were disturbed during year 2000.

6. How much acreage was **reclaimed** during the past year?

No reclamation took place in 2000.

7. Briefly describe the reclamation work performed during the past year. This description should include methods employed, and an evaluation of the results.

No new reclamation took place in 2000.

8. What is the **total disturbed acreage of entire project** at years end?

Other than the small area disturbed in 1999, the only disturbed acreage left in Pine Canyon are those sites identified in the 1988 reclamation plan that were left for long term use in the canyon. These sites include the Pine Canyon tunnel portal and concrete flume, production shaft headframe, access road, the warehouse/shop, culinary water system, water supply wells, power line to the wells, fresh water tank and the waste rock pile adjacent to the headframe.

9. Briefly summarize any mining and/or reclamation plans for the upcoming year.

There will be a pump upgrade to the existing pump system in Carr Fork shaft. This work will include construction of a small concrete pad for piping and rig support. The disturbance is expected to be less than one acre. The construction and staging area will be contoured prior to the contractor leaving the site. The area disturbed by 2001 construction will be seeded either fall 2001 or spring 2002.

NOTE: Section III, "Additional Information" applies only to **large mining operations**.

III. Additional Information

1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted.

No map is attached because there have been no significant changes to the area since a map was submitted in 1998.

2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should also be submitted.

Water level data and analytical results for water samples collected from the Carr Fork Service shaft are attached.

IV. Signature Requirement

I hereby certify that the foregoing is true and correct.

Name (Typed or Print): Paula Doughty

Title of Operator: Manager, Environmental Compliance

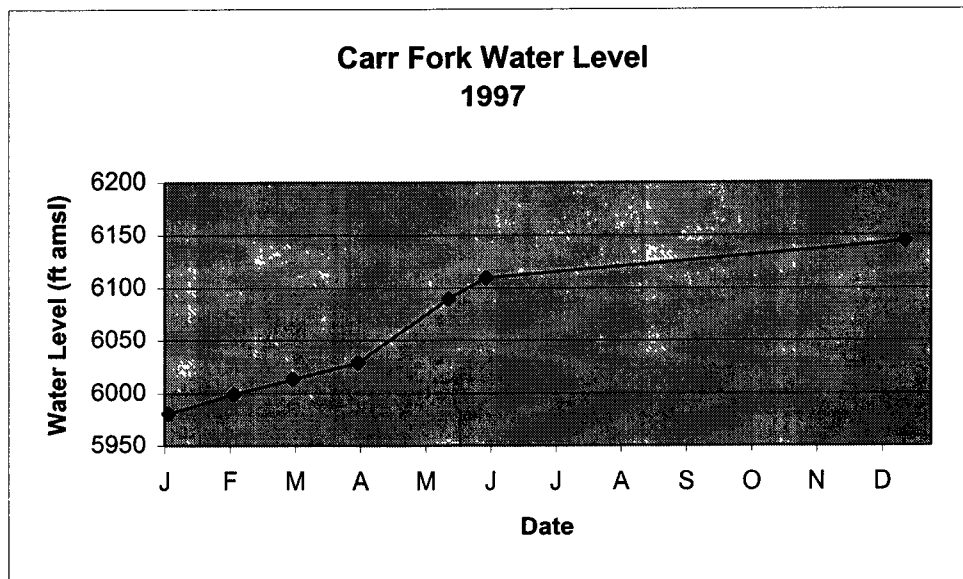
Signature of Operator: Paula Doughty

Date: 1/30/01

1997 Carr Fork Exhaust Shaft Water Level Soundings

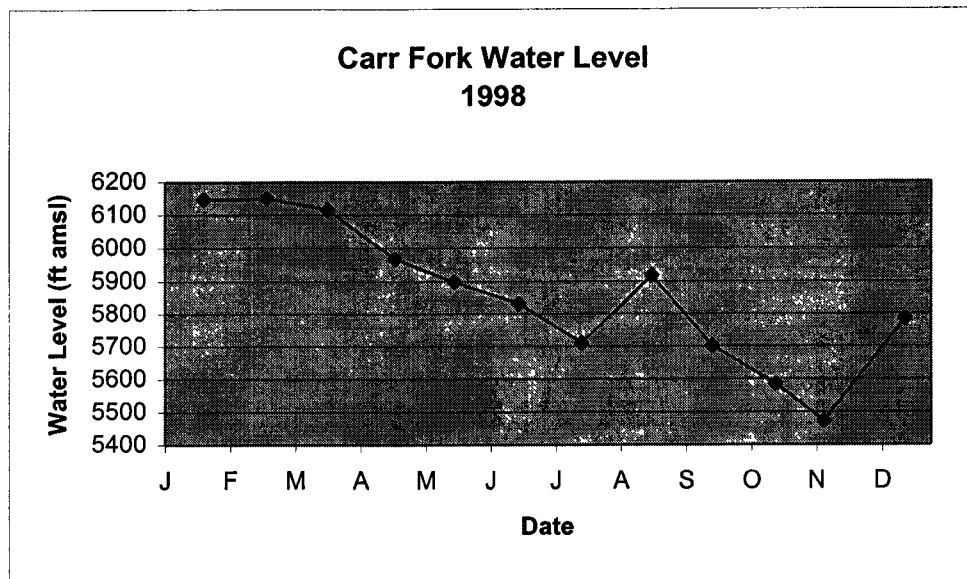
<u>Date</u>	<u>Water Elev. (ft amsl)</u>
03-Jan-97	5980.77
03-Feb-97	5999.33
03-Mar-97	6013.36
03-Apr-97	6028.88
16-May-97	6089.75
03-Jun-97	6109.69
19-Dec-97	6144.20

NOTE: Carr Fork Exhaust Shaft was plugged beginning Jun-97; upper 200 ft of shaft was excavated Jun- to Dec-97, hence no water level soundings. Collar of the Exhaust Shaft (@ 6240 ft) is now the lowest of the four Carr Fork Shafts.



1998 Carr Fork Exhaust Shaft Water Level Soundings

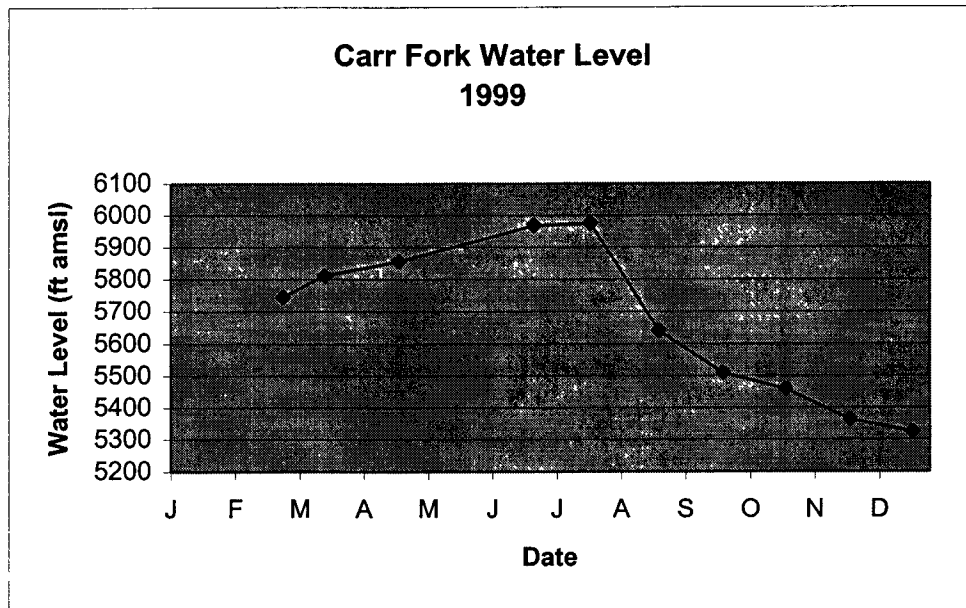
<u>Date</u>	<u>Water Elev. (ft amsl)</u>
19-Jan-98	6146.9
18-Feb-98	6149.9
19-Mar-98	6115.2
20-Apr-98	5966.9
18-May-98	5898.0
18-Jun-98	5832.2
18-Jul-98	5710.6
20-Aug-98	5917.2
18-Sep-98	5702.2
18-Oct-98	5585.5
10-Nov-98	5474.2
18-Dec-98	5783.6



1999 Carr Fork Water Level Soundings

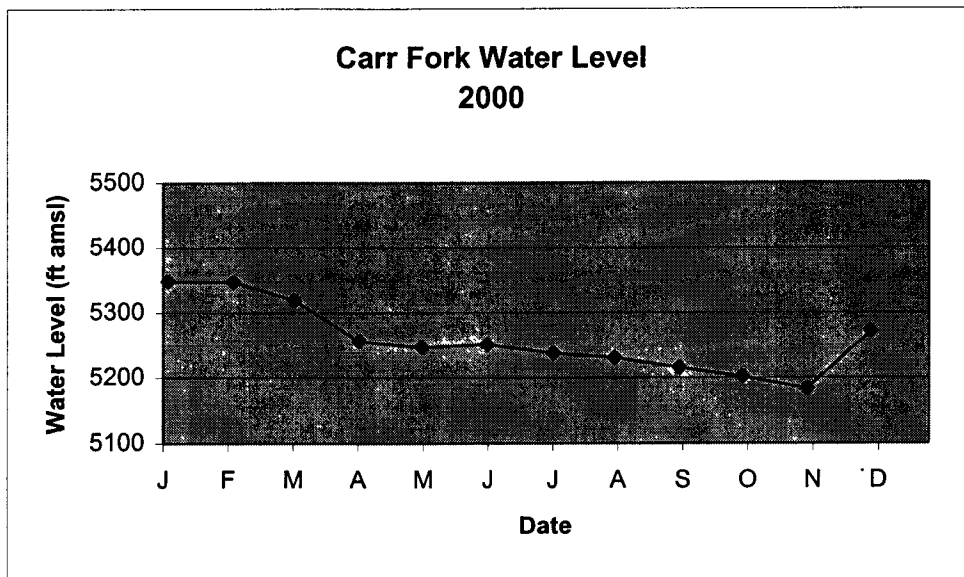
<u>Date</u>	<u>Water Elev. (ft amsl)</u>	
24-Feb-99	5746.4	(1)
16-Mar-99	5812.2	(1)
21-Apr-99	5856.5	(1)
25-Jun-99	5968.4	(2)
22-Jul-99	5975.2	(2)
24-Aug-99	5641.1	(2)
24-Sep-99	5509.0	(2)
24-Oct-99	5458.8	(2)
24-Nov-99	5362.0	(2)
24-Dec-99	5324.3	(2)

Note: (1) water level measured in Carr Fork Exhaust Shaft, Bingham Canyon
 (2) water level measured in Carr Fork Service Shaft, Pine Canyon



2000 Carr Fork Service Shaft Water Level Soundings

<u>Date</u>	<u>Water Elev. (ft amsl)</u>
04-Jan-00	5348.1
04-Feb-00	5346.7
04-Mar-00	5319.0
04-Apr-00	5256.2
04-May-00	5246.2
04-Jun-00	5251.3
06-Jul-00	5237.0
04-Aug-00	5230.0
04-Sep-00	5215.0
04-Oct-00	5201.2
04-Nov-00	5183.4
04-Dec-00	5271.2





Kennecott Environmental Laboratory

Certificate of Analysis -- June 6, 2000

P.O. Box 6001
Magna, UT 84044
Phone (801) 569-7950
Fax (801) 569-7901

Well Designation: **BMS1356**
Collection Date: 03/28/2000
Submission Date: 03/29/2000

Page 1

KEL Sample ID Numbers: **Total Metals AI07069**
Dissolved Metals AI07070

Analyte	Method	Units	CRDL	Result	Result
* Conductivity	120.1	Micro mho/cm	1	2370	
* pH	150.1			7.05	
* Temperature	170.1	Degrees C		18.0	
Alkalinity	310.1	mg/L	10	251	
Total Dissolved Solids	160.1	mg/L	20	2060	
Total Suspended Solids	160.2	mg/L	3.0	21.0	
Calcium	200.1	mg/L	1.0	468	
Chloride	325.2	mg/L	5	19	
Potassium	258.1	mg/L	0.5	3.5	
Magnesium	243.1	mg/L	1.0	133	
Sodium	273.1	mg/L	1.0	16	
Sulfate	375.1	mg/L	5	1280	
Silver	200.8	ug/L	1	Below CRDL	Below CRDL
Aluminum	200.8	ug/L	5	5	Below CRDL
Arsenic	200.8	ug/L	5	62	22
Boron	200.8	ug/L	10	30	30
Barium	200.8	ug/L	10	15	14
Beryllium	200.8	ug/L	2	Below CRDL	Below CRDL
Cadmium	200.8	ug/L	1	Below CRDL	Below CRDL
Chromium	200.8	ug/L	10	Below CRDL	Below CRDL
Copper	200.8	ug/L	20	Below CRDL	Below CRDL
Iron	236.1	ug/L	300	9340	4920
Manganese	200.7	ug/L	10	2060	1990
Molybdenum	200.8	ug/L	40	Below CRDL	Below CRDL
Nickel	200.8	ug/L	40	Below CRDL	Below CRDL
Lead	200.8	ug/L	5	Below CRDL	Below CRDL
Antimony	200.8	ug/L	5	Below CRDL	Below CRDL
Selenium (hydride method)	Mod 7742	ug/L	2		Below CRDL
Titanium	200.8	ug/L	10	613	568
Thallium	200.7	ug/L	60	Below CRDL	Below CRDL
Zinc	200.7	ug/L	20	494	399

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

* = Included for information purposes only, not performed by KEL.

N/A = Not Analyzed

The Contract Required Detection Limits (CRDL) are minimum reporting limits required by the Ground Water Characterization and Monitoring Plan (GCMP).

Kennecott Utah Copper Corporation
8315 West 3595 South
P.O. Box 6001
Magna, Utah 84044-6001
Tel: (801) 252-3257
Fax: (801) 252-3125

Paula H. Doughty
Manager, Environmental Compliance

M/045/004

Kennecott

January 30, 2001

Mr. Wayne Hedberg, Permit Supervisor
Minerals Reclamation Program
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801

Subject: Annual Reports for 2000, Kennecott Utah Copper Corporation

Dear Mr. Hedberg:

Enclosed are the completed annual report forms for the following DOGM permits:

M/035/002	Bingham Pit and UCD Modernization,
M/035/011	4th Line/Copperton Concentrator,
M/035/015	North Impoundment,
M/045/004	Pine Canyon Reclamation Project.

As in last year's reports, all disturbed and reclaimed acreage on the existing tailings impoundment is reported under permit number M/035/002.

In addition to the reclamation activities documented in the attached reports, the following work was conducted by KUCC in the Oquirrh Mountains outside of the DOGM jurisdictional boundaries:

Smelter Area – 71.4 acres, I-80 Pond – contaminated sludge removal

Smelter Area – 36.7 acres, Smelter Return Canal – contaminated sludge removal

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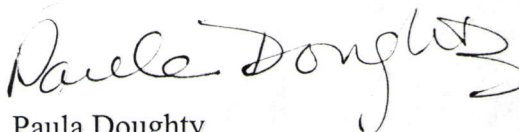
Mr. Wayne Hedberg, Permit Supervisor
January 30, 2001
Page 2 of 2

Smelter Area – 61.7 acres, Kessler Canyon – contaminated soil removal and recontouring

In 2000 KUCC spent more than \$650,000 dollars on reclamation activities within the boundaries of permit #M/035/002. These costs included purchases of seed, fertilizer, and surface preparation including biosolids application, seedlings, and planting. Excluded from these costs are such activities as contaminated soil removals, soil emplacement and 2.3 million dollars in major tailings dike recontouring efforts that were paid for by individual construction and remediation projects. After correcting for inflation, this equates to more than \$260,000 spent in 1978 dollars. This is well in excess of the \$50,000 annual expenditure required by permit #M/035/002.

If you have any questions about these annual reports, please contact Jim Kandolin at 569-6208.

Sincerely,

A handwritten signature in cursive script, reading "Paula Doughty".

Paula Doughty
Manager, Environmental Compliance

Enclosures